

Abstract

Modified perfluoroplastics and method for the production thereof. The invention relates to the field of chemistry and relates to modified perfluoroplastics that can be used, for example, in tribomaterials, and a method for the production thereof. The object of the invention is to disclose modified perfluoroplastics which, when processed in structural parts, lead to comparable gliding properties and improved wear resistances, and furthermore a simple and efficient method for the production thereof. The object is attained through modified perfluoroplastics comprising modified perfluoropolymers, the surface of which simultaneously exhibit -COOH and/or COF groups and reactive perfluoroalkyl-(peroxy-) radical centers, whereby further low-molecular and/or oligomeric and/or polymeric substances and/or olefinically unsaturated monomers and/or oligomers and/or polymers are coupled via the groups and/or to the centers. The object is further attained through a method for producing modified perfluoroplastics in which modified perfluoropolymers, which simultaneously exhibit -COOH and/or -COF groups and reactive perfluoroalkyl-(peroxy-) radical centers, are reacted with other substances through substitution reactions and/or addition reactions and/or radical reactions.